For Research Use Only

ZFP36L1/2 Polyclonal antibody

Catalog Number:12306-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
12306-1-AP

Size:
400 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2952

GenBank Accession Number:
BC018340

GeneID (NCBI):
677

UNIPROT ID:
Q07352

Full Name:
zinc finger protein 36, C3H type-like 1

Calculated MW:
338 aa, 36 kDa

Observed MW:
45-50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : U-937 cells, 3T3-L1 cells, RAW 264.7 cells, HeLa cells

IHC : rat ovary tissue,

IF/ICC : HepG2 cells,

Background Information

ZFP36L1, also named as Butyrate response factor 1 or TPA-induced sequence 11b, is a 338 amino acid protein, which is phosphorylated by RPS6KA1 at Ser-334 upon phorbol 12-myristate 13-acetate (PMA) treatment. ZFP36 encodes tristetraprolin (TTP) the prototype of a small family of RBPs, called the ZFP36 family, that are characterised by highly conserved tandem CCCH zinc-finger RNA-binding domains [PMID: 10751406]. ZFP36 is a RBP that promotes RNA decay and negatively regulates the expression of the myogenic regulatory factor MyoD by binding to the 3'UTR of MyoD mRNA [PMID: 25815583]. Mouse satellite cells from Zfp36-deficient mice express increased amounts of MyoD and display impaired satellite activation, demonstrating a role for ZFP36 in the maintenance of quiescence [PMID: 25815583]. The functions of the ZFP36L1 and ZFP36L2 family members have not been evaluated in skeletal muscle stem cell fate, but have been shown to act redundantly to promote quiescence during lymphocyte development. ZFP36L1 has been implicated in the persistence of the marginal zone B lymphocyte population. ZFP36L1 exists three isoform through blasting on NCBI database and can be phosphorylated, so the range of the molecular weight of ZFP36L1 is about 40-50 kDa. (PMID: 26180518, PMID: 17030620). This antibody recognizes both ZFP36L1 and ZFP36L2.

Notable Publications

Author	Pubmed ID	Journal	Application
Weirui Ma	30449617	Cell	IF
Xiao Feng	33473330	Mol Ther Nucleic Acids	IF
Fang Wu	34131106	Cell Death Dis	WB,IHC,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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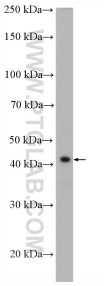
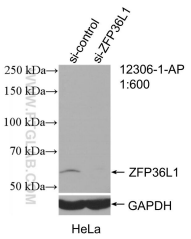
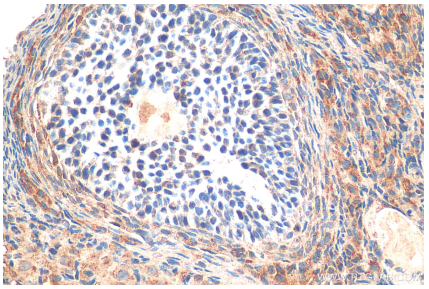
Selected Validation Data



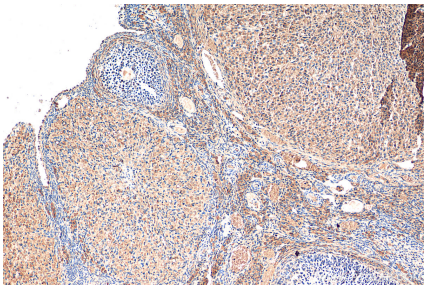
U-937 cells were subjected to SDS PAGE followed by western blot with 12306-1-AP (ZFP36L1/2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



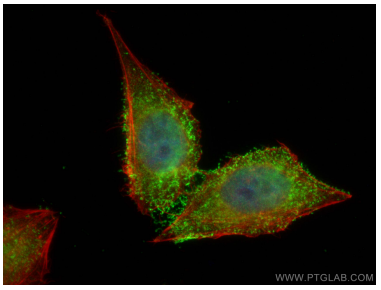
WB result of ZFP36L1/2 antibody (12306-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-ZFP36L1/2 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded rat ovary tissue slide using 12306-1-AP (ZFP36L1/2 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat ovary tissue slide using 12306-1-AP (ZFP36L1/2 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ZFP36L1/2 antibody (12306-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).